Substitute for form 1449/PTO **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** *(use as many sheets as necessary)*				Title Of Invention	Primitives for Workload Summarization
				Application Number	10/815,061
				Filing Date	03/31/2004
				First Named Inventor	Surajit Chaudhuri
				Art Unit	2171
				Examiner Name	N/A
Sheet	1	of	4	Attorney Docket Number	301552.01

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number – Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] (if known) Kind Code[5]	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
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	C	Aboulnaga, A. and Chaudhuri, S. *Self-Tuning Histograms: Building Histograms Without Looking at Data.* Proceedings of ACM SIGMOD, Philadelphia, 1999.	
	D	Acharya S., Gibbons P.B., and Poosala V. *Congressional Samples for Approximate Answering of Group-By Queries.* Proceedings of ACM SIGMOD, 2000.	
	E	Agrawal, S., Chaudhuri, S., and Narasayya, V. *Automated Selection of Materialized Views and Indexes for SQL Databases.* Proceedings of VLDB 2000.	

Examiner Signature		Date Considered	

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	F	Agrawal S., Chaudhuri S,, Kollar L., and Narasayya V. *Index Tuning Wizard for Microsoft SQL Server 2000.* White paper. http://msdn.microsoft.com/library/techart/itwforsql.htm	
	G	Borzsonyi S, Stocker K., Kossmann D. *The Skyline Operator.* Proceedings of ICDE 2001.	
	H	Calzarossa M., and Serazzi G. *Workload Characterization: A Survey.* Proceedings of IEEE, 81(8), Aug 1993.	
	I	Chandra, A. K., Hirschberg, D. S., and Wong, C. K. *Approximate Algorithms For Some Generalized Knapsack Problems*, Theoretical Computer. Science.3, 293-304, 1976.	
	J	Chatziantoniou D. and Ross, K. A. *Groupwise Processing of Relational Queries.* Proceedings of VLDB 1997.	
	K	Chaudhuri S., Das G., Datar M., Motwani R., and Narasayya V. *Overcoming Limitations of Sampling for Aggregation Queries.* Proceedings of ICDE 2001.	
	L	Chaudhuri S., Das G., and Narasayya V. *A Robust, Optimization-Based Approach for Approximate Answering of Aggregate Queries.* Proceedings of ACM SIGMOD 2001.	
	M	Chaudhuri S., Gupta A, and Narasayya V. *Compressing SQL Workloads (Workload Compression).* Proceedings of ACM SIGMOD 2002.	
	N	Chaudhuri S., Kaushik R., and Naughton J.F. *On Relational Support for XML Publishing: Beyond Sorting and Tagging.* Proceedings of ACM SIGMOD 2003.	
	O	Chaudhuri, S., and Narasayya, V. *AutoAdmin "What-If" Index Analysis Utility.* Proceedings of SIGMOD 1998.	
	P	Elnaffar S. *A Methodology for Auto-Recognizing DBMS Workloads.* Proceedings of CASCON'02.	

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	Q	Elnaffar S., Martin P., and Horman R. *Automatically Classifying Database Workloads.* In Proceedings of CIKM'02.	
	R	Fagin R. *Combining fuzzy information from multiple systems.* Proceedings of ACM PODS 1996.	
	S	Fagin R. *Fuzzy Queries in Multimedia Database Systems.* Proceedings of ACM PODS 1998.	
	T	Ganti V., Lee M.L., and Ramakrishnan R. *ICICLES: Self-tuning Samples for Approximate Query Answering.* Proceedings of VLDB 2000.	
	U	Johnson, D.S. *Approximation Algorithms for Combinatorial Problems,* Journal of Computer and System Sciences, 9 (1974), pp. 256—278.	
	V	Legaria, C. G., and Joshi, M. M. *Orthogonal Optimization of Subqueries and Aggregation.* Proceedings of SIGMOD 2001.	
	W	Papadias D., Tao Y., Fu G., Seeger B. *An Optimal and Progressive Algorithm for Skyline Queries.* Proceedings of ACM SIGMOD 2003.	
	X	Srinivasan, A. *Improved Approximations of Packing and Covering Problems,* Proc. 27th Ann. ACM Symposium. on Theory of Comp., pp 268–276, 1995.	
	Y	Stillger M., Lohman C., and Markl V. *LEO—DB2's LEarning Optimizer.* In Proceedings of VLDB 2001.	
	Z	Tan K., Eng P., Ooi B.C.: *Efficient Progressive Skyline Computation.* Proceedings of VLDB 2001.	
	AA	Valentin, G., Zuliani, M., Zilio, D., and Lohman, G. *DB2 Advisor: An Optimizer Smart Enough to Recommend Its Own Indexes.* Proceedings of ICDE 2000.	
	BB	Yu P., Chen M., Heiss H., and Lee S. *On Workload Characterization of Relational Database Environments.* IEEE Transactions on Software Engineering, Vol 18, No. 4, April '92.	
	CC	*ILOG CPLEX: World's Leading Mathematical Programming Optimizers,* http://www.ilog.com/products/cplex	

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	DD	Lovasz L. *On the Ratio of Optimal Integral and Fractional Covers.* Discrete Mathematics, 13(1975), pp. 383- 390.	

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